

EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEE	DDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT

FILE ID**TILINE

E 10

1 0001 0 XTITLE 'EDT\$TILINE - read a command line'
2 0002 0 MODULE EDT\$TILINE (
3 0003 0 IDENT = 'V04-000'
4 0004 0) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *****
29 0029 1
30 C030 1
31 0031 1 **
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 Read a command line.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Bob Kushlis, CREATION DATE: June 9, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 18-FEB-1981. This module was created by
45 0045 1 extracting routine EDT\$STI_RDCMDLN from module TINPUT.
46 0046 1 1-002 - Regularize headers. JBS 11-Mar-1981
47 0047 1 1-003 - Add return value for end of journal file. JBS 02-Oct-1981
48 0048 1 1-004 - Add an alternate terminator. STS 21-Oct-1981
49 0049 1 1-005 - Fix parameter pass to/from char. translator. SMB 27-Oct-1981
50 0050 1 1-006 - Set a flag if control C actually aborted something. JBS 24-May-1982
51 0051 1 1-007 - Remove a reference to TI STARTECHO. SMB 22-Jun-1982
52 0052 1 1-008 - Allow for 8-bit keyboards. JBS 17-Aug-1982
53 0053 1 1-009 - Add SS3 for 8-bit terminals. JBS 20-Aug-1982
54 0054 1 1-010 - Add a special test for 'Delete' as a terminator. SMB 23-Aug-1982
55 0055 1 1-011 - Don't write into a formal parameter. JBS 24-Aug-1982
56 0056 1 1-012 - Fix a bug in edit 1-011. JBS 25-Aug-1982
57 0057 1 1-013 - Don't modify EDT\$SG_PRV_COL; it is being maintained. JBS 05-Oct-1982

EDT\$TILINE
V04-000

EDT\$TILINE - read a command line

G 10
16-Sep-1984 01:56:06 VAX-11 BLiss-32 V4.0-742
14-Sep-1984 12:24:55 DISK\$VMSMASTER:[EDT.SRC]TILINE.BLI;1 Page 2
(1)

: 58 0058 1 ! 1-014 - Add a conditional for VT220 support. JBS 11-Feb-1983
: 59 0059 1 !--
: 60 0060 1

```
: 62      0061 1 %SBTTL 'Declarations'  
.: 63      0062 1  
.: 64      0063 1 | TABLE OF CONTENTS:  
.: 65      0064 1 |  
.: 66      0065 1 |  
.: 67      0066 1 | REQUIRE 'EDTSRC:TRAROUNAM';  
.: 68      0505 1 |  
.: 69      0506 1 | FORWARD ROUTINE  
.: 70      0507 1 |   EDTSSTI_RDCMDLN;  
.: 71      0508 1 |  
.: 72      0509 1 |  
.: 73      0510 1 | INCLUDE FILES:  
.: 74      0511 1 |  
.: 75      0512 1 |  
.: 76      0513 1 | REQUIRE 'EDTSRC:EDTREQ';  
.: 77      0648 1 |  
.: 78      0649 1 | LIBRARY 'EDTSRC:SUPPORTS';  
.: 79      0650 1 |  
.: 80      0651 1 |  
.: 81      0652 1 | MACROS:  
.: 82      0653 1 |  
.: 83      0654 1 |   NONE  
.: 84      0655 1 |  
.: 85      0656 1 | EQUATED SYMBOLS:  
.: 86      0657 1 |  
.: 87      0658 1 |   NONE  
.: 88      0659 1 |  
.: 89      0660 1 | OWN STORAGE:  
.: 90      0661 1 |  
.: 91      0662 1 |   NONE  
.: 92      0663 1 |  
.: 93      0664 1 | EXTERNAL REFERENCES:  
.: 94      0665 1 |  
.: 95      0666 1 |   In the routine
```

```
97      0667 1 %SBTTL 'EDTS$TI_RDCMDLN - read a command line'
98      0668 1
99      0669 1 GLOBAL ROUTINE EDTS$TI_RDCMDLN (
100     0670 1   C
101     0671 1   COM_BUF,
102     0672 1   END_COM,
103     0673 1   TERM,
104     0674 1   RES_TERM
105     0675 1 ) =
106     0676 1
107     0677 1 ++
108     0678 1 | FUNCTIONAL DESCRIPTION:
109     0679 1
110     0680 1   Read characters up to a terminator into the command buffer. The
111     0681 1   characters are echoed as they are read. Delete is handled and
112     0682 1   CTRL/U aborts the operation.
113     0683 1
114     0684 1 | FORMAL PARAMETERS:
115     0685 1
116     0686 1   C           The first character to be handled (it was read previously)
117     0687 1
118     0688 1   COM_BUF      Pointer into the command buffer where the characters should
119     0689 1           be placed.
120     0690 1
121     0691 1   END_COM      A character pointer to receive the pointer after the characters
122     0692 1           have been read.
123     0693 1
124     0694 1   TERM         A special terminator. (Escape, CSI and SS3 are always terminators.)
125     0695 1
126     0696 1   RES_TERM     The actual terminator.
127     0697 1
128     0698 1 | IMPLICIT INPUTS:
129     0699 1
130     0700 1   EDT$ST_CMD_BUF
131     0701 1   EDT$SG_TIN_ECHOPOS
132     0702 1
133     0703 1
134     0704 1
135     0705 1   EDT$SG_TIN_ECHOFLG
136     0706 1   EDT$SG_CC_DONE
137     0707 1
138     0708 1
139     0709 1
140     0710 1   1 = the string was read,
141     0711 1   0 = aborted by CTRL/U or CTRL/C
142     0712 1   2 = end of journal file
143     0713 1
144     0714 1 | SIDE EFFECTS:
145     0715 1
146     0716 1   NONE
147     0717 1
148     0718 1   --
149     0719 1
150     0720 2   BEGIN
151     0721 2
152     0722 2   EXTERNAL ROUTINE
153     0723 2     EDT$ERA_MSGLN.
```

```

154      0724 2      EDT$SCHK_CC,
155      0725 2      EDT$STRN_KPÁDK,
156      0726 2      EDT$STI_INPCH,
157      0727 2      EDT$STI_DELK : NOVALUE,
158      0728 2      EDT$STI_ECHOCH : NOVALÜE;
159      0729 2
160      0730 2      EXTERNAL
161      0731 2          EDT$ST_CMD_BUF,
162      0732 2          EDT$SG_TIN_ECHOFLG,
163      0733 2          EDT$SG_TIN_ECHOPOS,
164      0734 2          EDT$SG_CC_DONE;
165      0735 2
166      0736 2      LOCAL
167      0737 2          COM_POINT,
168      0738 2          CH : BYTE,
169      0739 2          KEY;
170      0740 2
171      0741 2          COM_POINT = .COM_BUF;
172      0742 2
173      0743 2      + Use C as the first character.
174      0744 2      -
175      0745 2          CH = .C;
176      0746 2
177      0747 2      + If the terminator can be any character, then return immediately
178      0748 2      upon seeing the delete character.
179      0749 2
180      0750 2
181      0751 2      IF (.TERM EQ ASC_K_DEL) THEN RETURN (1);
182      0752 2
183      0753 2      WHILE 1 DO
184      0754 3          BEGIN
185      0755 3
186      0756 3          SELECTONE .CH OF
187      0757 3          SET
188      0758 3
189      0759 3          [ASC_K_DEL] :
190      0760 3
191      0761 3      + Delete character, delete the previous character if there is one.
192      0762 3
193      0763 3
194      0764 4          IF (.COM_POINT NEQ .COM_BUF)
195      0765 3          THEN
196      0766 4          BEGIN
197      0767 4          COM_POINT = CH$PLUS (.COM_POINT, -1);
198      0768 4          EDT$STI_DELK (CH$RCHAR (.COM_POINT));
199      0769 3          END;
200      0770 3
201      0771 3          [ASC_K_ESC]
202      0772 3
203      L 0773 3      %IF SUPPORT_VT220
204      0774 3      %THEN
205      0775 3          . ASC_K_CSI, ASC_K_SS3
206      0776 3      %FI
207      0777 3
208      0778 3          ] :
209      0779 3
210      0780 3      !+ Escape, CSI or SS3, terminate the read and gobble up the rest of the escape

```

```
211      0781 3 ! or control sequence.  
212      0782 3 !-  
213      0783 4      BEGIN  
214      0784 4      IF (EDT$STRN_KPADK (KEY) EQL 0) THEN RETURN (2);  
215      0785 4      .RES TERM = .KEY;  
216      0786 4      EXIT[OOP;  
217      0787 4      END;  
218      0788 4      [.TERM] :  
219      0789 3      + The special terminator, end the read.  
220      0790 3      |-  
221      0791 3      BEGIN  
222      0792 3      .RES TERM = .TERM;  
223      0793 3      EXIT[OOP;  
224      0794 3      END;  
225      0795 4      [ASC_K_CTRL_U] :  
226      0796 4      + Abort the read operation, erasing the echo line.  
227      0797 4      |-  
228      0798 3      BEGIN  
229      0799 3      EDT$SG_TIN_ECHOFLG = 1;  
230      0800 3      .END COM = .COM_BUF;  
231      0801 3      EDT$ERA MSGLN (?);  
232      0802 3      RETURN (0);  
233      0803 3      END;  
234      0804 4      [OTHERWISE] :  
235      0805 4      + Place the character in the buffer.  
236      0806 4      |-  
237      0807 4      IF CH$PTR_NEQ (.COM_POINT, CH$PLUS (EDT$ST_CMD_BUF, 256))  
238      0808 4      THEN  
239      0809 3      BEGIN  
240      0810 3      CH$WCHAR A (.CH, COM_POINT);  
241      0811 3      EDT$STI_ECHOCH (.CH);  
242      0812 3      END;  
243      0813 3      TES;  
244      0814 3      +  
245      0815 3      | Check for a control C as abort the read.  
246      0816 4      |-  
247      0817 3      IF EDT$CHK_CC ()  
248      0818 4      THEN  
249      0819 4      BEGIN  
250      0820 4      .END COM = .COM_BUF;  
251      0821 3      EDT$SG_CC_DONE = 1;  
252      0822 3      RETURN (0);  
253      0823 3      END;  
254      0824 3      +  
255      0825 3      |  
256      0826 3      | Check for a control C as abort the read.  
257      0827 3      |-  
258      0828 3      IF EDT$CHK_CC ()  
259      0829 3      THEN  
260      0830 3      BEGIN  
261      0831 4      .END COM = .COM_BUF;  
262      0832 4      EDT$SG_CC_DONE = 1;  
263      0833 4      RETURN (0);  
264      0834 4      END;  
265      0835 3      +  
266      0836 3      |  
267      0837 3      | IF (EDT$STI_INPCH (CH) EQL 0) THEN RETURN (2);
```

EDT\$TILINE
V04-000

EDT\$TILINE - read a command line
EDTSSTI_RDCMDLN - read a command line

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16-Sep-1984 01:56:06
14-Sep-1984 12:24:55

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]TILINE.BLI;1

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: 268 0838 3
: 269 0839 2 END;
: 270 0840 2
: 271 0841 2 !+
: 272 0842 2 Return a pointer one character beyond the last one read.
: 273 0843 2 !-
: 274 0844 2 .END COM = .COM_POINT;
: 275 0845 2 RETURN (1);
: 276 0846 1 END;

! of routine EDTSSTI_RDCMDLN

.TITLE EDT\$TILINE EDT\$TILINE - read a command line
.IDENT \V04-000\

.EXTRN EDT\$SERA_MSGLN, EDT\$CHK_CC
.EXTRN EDT\$STRN_KPADK, EDT\$STI_INPCH
.EXTRN EDT\$STI_DELK, EDT\$STI_ECHOCH
.EXTRN EDT\$STT_CMD_BUF, EDT\$SG_TIN_ECHOFLG
.EXTRN EDT\$SG_TIN_ECHOPOS
.EXTRN EDT\$SG_CC_DONE

.PSECT _EDT\$CODE,NOWRT, SHR, PIC,2

			0000C 00000				
		04 5E	08 AC	00005	.ENTRY	EDTSSTI_RDCMDLN, Save R2,R3	0669
		04 53	04 D0		SUBL2	#8, SP	
		04 AE	04 90	00009	MOVL	COM_BUF, COM_POINT	0741
		04 8F	10 AC	0000E	MOVB	C, CH	0745
			03 D1		CMPL	TERM, #127	0751
			03 12	00016	BNEQ	1S	
			00B0 31	00018	BRW	11S	
		7F 52	04 AE	0001B	1\$: MOVZBL	CH, R2	0756
		7F 8F	52 9A		CMPB	R2, #127	0759
			52 91	0001F	BNEQ	2S	
			12 12	00023	CMPL	COM_POINT, COM_BUF	0764
		08 AC	53 D1	00025	BEQL	7S	
			6F 13	00029	MOVZBL	-(COM_POINT), -(SP)	0768
			73 9A	0002B	CALLS	#1, EDTSSTI_DELK	
		00000000G 00	01 FB	0002E	BRB	7S	0764
			63 11	00035	CMPB	R2, #27	0771
			1B 52	00037	2\$: BEQL	3S	
			0C 13	0003A	CMPB	R2, #143	
		8F 8F	52 91	0003C	BEQL	3S	
			06 13	00040	CMPB	R2, #155	
		9B 8F	52 91	00042	BNEQ	4S	
			13 12	00046	PUSHL	SP	0785
		00000000G 00	5E DD	00048	3\$: CALLS	#1, EDTSSTRN_KPADK	
			01 FB	0004A	TSTL	R0	
			50 D5	00051	BEQL	9S	
			6E 13	00053	MOVL	KEY, @RES_TERM	0787
		14 BC	6E D0	00055	BRB	10S	0783
			6C 11	00059	CMPL	R2, TERM	0791
		10 AC	52 D1	0005B	4\$: BNEQ	5S	
			07 12	0005F	MOVL	TERM, @RES_TERM	0796
		14 BC	AC D0	00061	BRB	10S	0795
			5F 11	00066	CMPB	R2, #21	0800
		15	52 91	00068	5\$: BNEQ	6S	
		00000000G 00	15 12	0006B	MOVL	#1, EDT\$SG_TIN_ECHOFLG	0805
			01 D0	0006D			

EDT\$TILINE
V04-000

EDT\$TILINE - read a command line
EDT\$STI_RDCMDLN - read a command line

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16-Sep-1984 01:56:06
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VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]TILINE.BLI;1

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0C 0000000G	BC 00	08	AC 00	DO 00074	MOVL	COM_BUF @END_COM	0806
			00	FB 00079	CALLS	#0 EDT\$SER_A_MSGLN	0807
			4D	11 00080	BRB	12\$	0808
	50 0000000G	00	9E	00082 6\$:	MOVAB	EDTSST_CMD_BUF+256, R0	0816
	50	53	D1	00089	CMPL	COM_POINT, R0	
		OC	13	0008C	BEQL	7\$	
	83	52	90	0008E	MOVB	R2, (COM_POINT)+	0819
		52	DD	00091	PUSHL	R2	0820
0000000G	00	01	FB	00093	CALLS	#1, EDT\$STI_ECHOCH	
0000000G	00	00	FB	0009A 7\$:	CALLS	#0, EDT\$SCHR_CC	0829
	OE	50	E9	000A1	BLBC	R0, 8\$	
0C 0000000G	BC 00	08	AC	DO 000A4	MOVL	COM_BUF @END_COM	0832
		01	DO	000A9	MOVL	#1 EDT\$SG_CC_DONE	0833
		1D	11	000B0	BRB	12\$	0834
0000000G	00	04	AE	9F 000B2 8\$:	PUSHAB	CH	0837
		01	FB	000B5	CALLS	#1, EDT\$STI_INPCH	
		50	D5	000BC	TSTL	R0	
		03	13	000BE	BEQL	9\$	
	50	FF58	31	000C0	BRW	1\$	
		02	DO	000C3 9\$:	MOVL	#2, R0	
			04	000C6	RET		
OC 50	BC	53	DO	000C7 10\$:	MOVL	COM_POINT, @END_COM	0844
		01	DO	000CB 11\$:	MOVL	#1, R0	0845
		04	000CE		RET		
	50	D4	000CF 12\$:	CLRL	R0		
		04	000D1		RET		0846

: Routine Size: 210 bytes. Routine Base: _EDT\$CODE + 0000

: 277 0847 1
: 278 0848 1 !<BLF/PAGE>

EDT\$TILINE
V04-000

EDT\$TILINE - read a command line
EDT\$STI_RDCMDLN - read a command line

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DISK\$VMSMASTER:[EDT.SRC]TILINE.BLI;1

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: 280 0849 1 END
: 281 0850 1
: 282 0851 0 ELUDOM

: ! of module EDT\$TILINE

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	210	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	6	1	40	00:00.3
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
-\$255\$DUA28:[EDT.SRC]SUPPORTS.L32;1	2	1	50	5	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:TILINE/OBJ=OBJ\$:\$TILINE MSRC\$:\$TILINE.BLI/UPDATE=(ENH\$:\$TILINE)

: Size: 210 code + 0 data bytes
: Run Time: 00:14.9
: Elapsed Time: 00:18.2
: Lines/CPU Min: 3438
: Lexemes/CPU-Min: 9357
: Memory Used: 94 pages
: Compilation Complete

0140 AH-BT13A-SE
VAX/VMS V4.0

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SETCOMMAND LIS	TIAUTO LIS	TIDELETE LIS	UExACASE LIS
SCRZAPSIN LIS	TILINE LIS	TRACEMAC LIS	TSTKEYDEF LIS
SCRUPDATN LIS	TITYPAHD LIS	TRAROUNAM LIS	UFSTRING LIS
SUPPORTS LIS	TICLAUD LIS	TRANSLATE LIS	UCUTCASE LIS
TICHAR LIS	TIECHO LIS	TRACELIT LIS	
SYSVAX LIS			
SCRWID LIS			